

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 01259125 A

(43) Date of publication of application: 16.10.1989

(51) Int. Cl

C21D 8/10

// C22C 38/00, C22C 38/38

(21) Application number:

63088849

(22) Date of filing:

11.04.1988

(71) Applicant: **SUMITOMO METAL IND LTD**

(72) Inventor: **OKADA YASUTAKA**

(54) MANUFACTURE OF HIGH-STRENGTH OIL WELL TUBE EXCELLENT IN CORROSION RESISTANCE

(57) Abstract:

PURPOSE: To manufacture a high-strength oil well tube excellent in corrosion resistance by successively applying respective treatments of hardening, tempering, plastic working, hardening, and tempering to a tube of low alloy steel with a specific composition under respectively specified conditions.

CONSTITUTION: Hardening is applied at 880-980°C to a tube of a low alloy steel having a composition con-

sisting of, by weight, 0.15-0.45% C, 0.1-1% Si, 0.3-1.8% Mn, ≤0.01% SolAl, ≤0.002% N, ≤0.005% AlN, and the balance essentially Fe. Subsequently tempering is applied to the above tube at 600-730°C, and also, plastic working is applied in the above temp. region once or plural times so that the total amount of strain reaches 1-20%. Further, the above tube is subjected to hardening at 800-950°C and tempering at 600-730°C. By this method, the high-strength oil well tube excellent in corrosion resistance, particularly in sulfide stress corrosion cracking resistance, can be manufactured.

COPYRIGHT: (C)1989,JPO&Japio